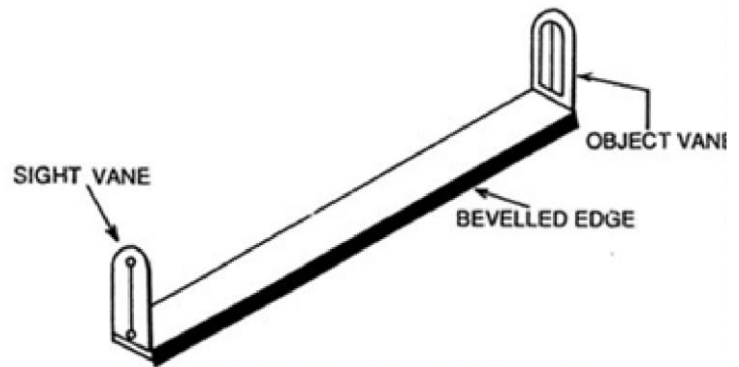


PLANE TABLE BASICS

Plane Table Survey is a method of Surveying in which field work and the office work are done simultaneously

Equipment:

- (1) Plane Table
- (2) Alidade
- (3) Plumbing fork and Plumb Bob
- (4) Spirit Level
- (5) Chain or Tape
- (6) Rain roof cover for the plane table
- (7) Compass
- (8) Ranging Rods
- (9) Drawing Sheets
- (10) Drawing equipment.



Alidade with components

Procedure:

- Select a suitable point P on the ground such that all the details are visible from it.
- Centre and level the plane table over P
- Mark the director of North on the sheet by using a compass
- Locate instrument station P on the sheet by using plumbing form, such that P on the sheet is exactly over P on the ground
- Centering the alidade on Point P, sight various details step by step and draw a ray from each detail along the fiducial edge of the alidade
- Let the details be named as A, B, C, D, E etc
- Now measure the distances of each point from P i.e. PA, PB, PC, PD, PE and plot them to scale on the sheet as pa, pb, pc, pd and pe respectively
- Join a, b, c, d and e to give the outline of details

NOTE: These details may be building corners, electric towers, trees, manholes etc but for demonstration purposes we have put ranging rods.

